VARYTEC

Manual

LED Easy Move Micro Beam RGBW

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1. Safety instructions

- This device is suitable for indoor use (not outdoors) only.
- All modifications to the device will void the warranty.
- Repairs are to carry out by skilled personnel only.
- Use only fuses of the same type and original parts as spare parts.
- Protect the unit from rain and humidity to avoid fire and electric shocks.
- Make sure to unplug the power supply before opening the housing.

1.1. FOR SAFE AND EFFICIENT OPERATION

Be careful with heat and extreme temperature
Avoid exposing it to direct rays of the sun or near a heating appliance.
Not put it in a temperature bellow 32°F /0°C, or exceeding 104°F /40°C.

Keep away from humidity, water and dust
Do not place the set in a location with high humidity or lots of dust.
Containers with water should not be placed on the set.

Keep away from sources of hum and noise
Such as transformer motor, tuner, TV set and amplifier.

To avoid placing on un-stable location
Select a level and stable location to avoid vibration.

Do not use chemicals or volatile liquids for cleaning
Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

If out of work, contact sales agency immediately
Any troubles arose, remove the power plug soon, and contact with an engineer for repairing, do not open the cabinet by yourself, it might result a danger of electric shock.

Take care with the power cable
Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug. When not using the device for an extended period of time, be sure to disconnect the plug from the receptacle.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems. Make sure the electrical connection is carried out by qualified personnel. All electrical and mechanical connections have to be carried out according to the European safety standards.

2. Designated use

This device was developed for professional use on stages, in discos, theatres etc. The device is only approved for a connection up to 230V 50/60 Hz AC voltage and only for indoor use.
Regular breaks during operation increase the lifetime of your device.

Avoid convulsions or any form of forceful impact during the installation or the start-up of the device.

Make sure that the device is not exposed excessive heat, humidity or dust at the place of installation. Take care that no cables are lying around. You would endanger your own safety and also the safety of a third party.

It is not allowed to operate or store the device in an environment in which spray water, rain, humidity or fog is expected. Humidity or very high atmospheric humidity could reduce the isolation of the device and could cause deathly electric shocks. If you use fog devices the device has not be exposed to a direct smoke jet. There has to be a safety distance of at least 0,5m between this device and the fog machine. Make sure that the saturation of the fog has to enable a visibility of at least 10m.

The ambient temperature has to be between 0°C and +40°C. Avoid direct sunlight and close proximity to heaters. You have also to attend it during the transport in closed motor vehicles.

Operate the device not during thunderstorms. Surge voltages could destroy the device. Unplug the power supply during thunderstorms.

During the installation the use of the mounting bracket is obligatory.

Surrounding objects or surfaces should not be in contact with the device.

Make sure that during the installation and removal of the device the area below the place of installation is basically cordoned off. This also applies to implementation of service.

The device has basically been protected by a suitable safety.

Make familiar yourself with the functions of the device before start-up. People without the experience should not handle with the device. The most cause of functional disorder is inappropriate handling.

Do not use chemicals or volatile liquids for cleaning. Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

For transport use the original packing or designated accessory to avoid damages during the transport.

For reasons of safety unauthorized changes are forbidden.
A usage of the device which differs from usages which are described in this manual can cause damages of the device. In that case the warranty expires. Additional you should notice that every differed usage is related with dangers and can cause e.g. an electrical short, fire, electric shock or crash.

2.1. Overhead installation

Danger of life!
You have to observe the regulations of BGV C1 (formerly VBG 70) and EN60598-2-17 Installations are to carry out by skilled personnel only.

The suspension devices have to be build and measured so they can withstand for an hour the tenfold of the payload without suffering a permanent detrimental deformation.

Basically installation has to be made by using a second separate suspension. This can be e.g. a suitable net. The second suspension must be designed and attached so no part of the installation can fall down in case of failure.

During construction, reconstruction and deconstruction unnecessary stay in the range of moving areas, on lightning bridges, under elevated work stations or any other danger zones is forbidden.

The operator is obliged to following safety-related and mechanical facilities:

- Before the first start-up or after critical changes before restarting it has to be checked by an expert.
- Review in the frame of the inspection test at least all four years by an expert. .
- Review by a qualified person at least once a year.

How to carry out the overhead installation:
In tidal fall you should install the device out of the lounge area of people

IMPORTANT! Overhead installation requires a high level of experience. This includes knowledge of calculating the payload, used installation material and safety inspections of the used material and the projector whereas the required experience is not limited to this. Do not try to carry out installation yourself under any circumstances if you are not qualified. Contact a professional installer. An inappropriate installation can lead to injuries and/or damaged properties.

It is not allowed to install the device in the grip area of people.

If the device may hang from the ceiling or from high beams, the use of truss systems is mandatory. The device may not be installed so it can swing freely in the room.

Please note: Crashing down items can cause serious injuries! Do not install the projector, if you doubt the safety of a possible installation form!

Before installation make sure that the mounting surface has the ability to carry the tenfold point load of the own weight of the device.

Mount the device with the mounting-bracket to your trussing system using an appropriate clamp.

During overhead installation the device must be always secured by a safety rope which is designed to hold the twelvefold weight of device. Only safety ropes with quick-release safety fastener elements may be used. Hang up the safety rope in the hole of the mounting bracket. Direct the rope over the truss or an appropriate fastening point. Hang up the end in the fastening element and tie up the locking nut. A safety rope once exposed to failing load or damaged may not be used furthermore.

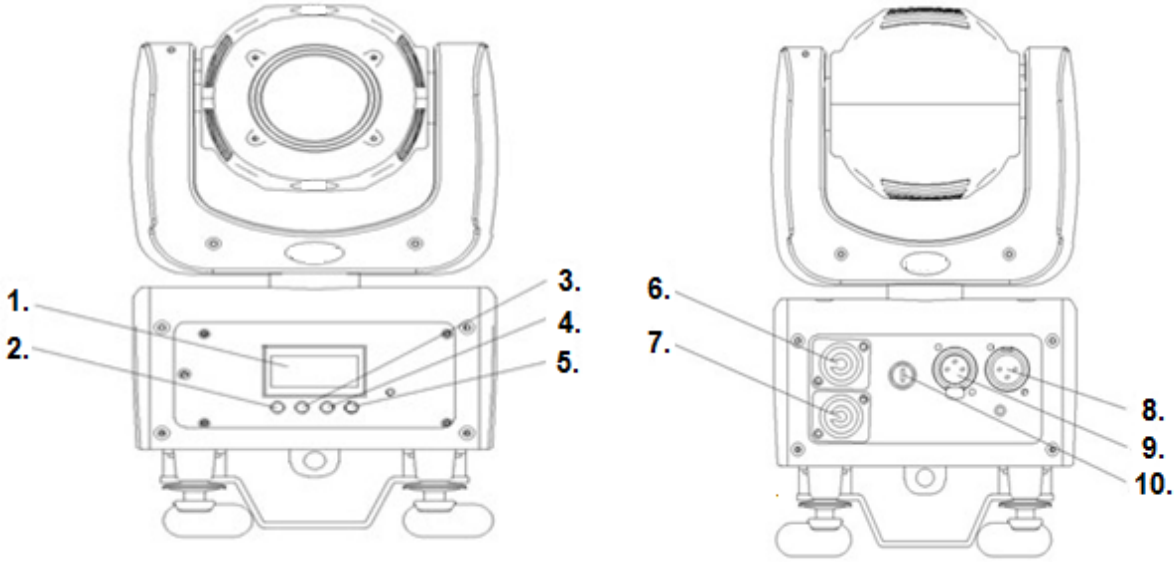
The maximum drop exceed must not exceed 20cm.

A safety rope once exposed to failing load or damaged may not be used furthermore.
Adjust the desired inclination angle via the mounting bracket and tighten the screw.

3. Introduction

Thank you for buying the **LED Easy Move Micro Beam**. . It is a powerful device.
For a successful installation and operation, please read this manual carefully.

3.1. Product overview



1. Display
2. Menu
3. Up
4. Down
5. Enter

6. Power in P-Con
7. Power out P-Con
8. DMX out XLR 3pol
9. DMX in XLR 3 pol
10. Fuse

4. Connections

4.1. Electrical connections

If you wish to change the power supply settings, see the chapter Appendix. Connect the fixture to the mains with the enclosed power cable and plug. The earth has to be connected.

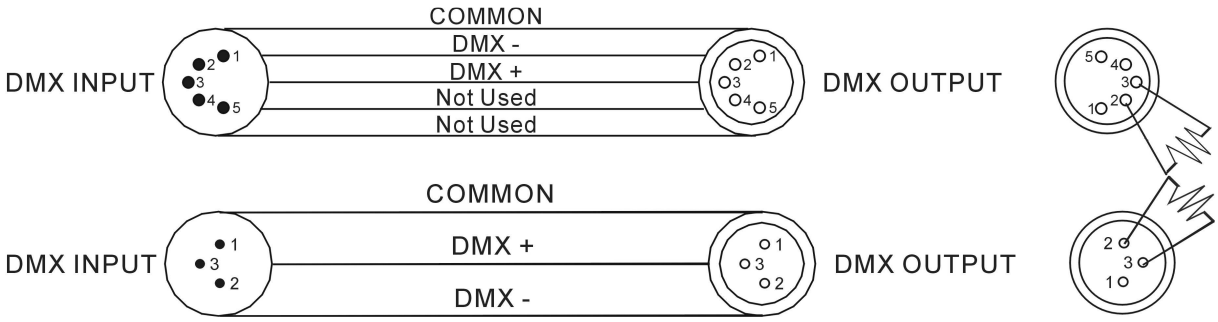
Cable (EU)	Cable (US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	⏚

4.2. DMX connections

To make a DMX512 connection go ahead like it is described in the picture. Make sure that you use shielded cable. 3pole or 5pole XLR cables are suitable.
Important! After the last device the line has to be terminated. In order to do this you have to solder a 120Ω resistor between the pins Data + and Data -. You can solder this end resistor on a 3pin or 5pin XLR: Plug this adapter into the DMX output of the device.

4.3. DMX connection with terminator

Where the DMX cable has to run a long distance or the equipment is operated in an electrically noisy environment like a disco for installations, we recommend using a DMX terminator. This prevents corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR connector with a 120 Ω resistor between pins 2 and 3, which is then plugged into the XLR output socket of the last device in the series. Please look to the bottom drawings.



5. Control

Press MENU to reach the first menu and use UP/DOWN to get to submenu. To open submenu you have to press ENTER, here you can also reach other menu items with UP/DOWN buttons, confirm with ENTER. Press MENU to store your settings.

5.1. Structure of the menu

Menu	Submenu 1	Submenu 2	Function
AddreSet	ADD:000-512		Setting the DMX address.
MotorSet	TiltRev	Yes/No	Activate or deactivate the Tilt reverse.
	PanAdj	000-255	Fine adjusting of Pan.
	TiltAdj	000-255	Fine adjusting of Tilt.
	Encoder	Yes/No	Activate or deactivate the feedback.
	PanMode	540/630	Choose the required Pan mode.
	PanRev	Yes/No	Activate or deactivate the Pan reverse.
AutoProg	Alone/Master		Chossing an automatic mode.
Mic Cont	Alone/Master		Choosing a sound-to-light mode.
MICSensy	000-100%		Setting the microphone sensitivity.
ChanTest	Pan	000-255	Manual setting of pan.
	Pan1	000-255	Manual setting of Pan fine.
	Tilt	000-255	Manual setting of Tilt.
	Tilt1	000-255	Manual setting of Tilt fine.
	Speed	000-255	Manual setting of the speed.
	R	000-255	Manual setting of dimmer red.
	G	000-255	Manual setting of dimmer green.
	B	000-255	Manual setting of dimmer blue.
	W	000-255	Manual setting of dimmer white.
	Stro	000-255	Manual setting of the strobe.
	Lumi	000-255	Manual setting of the Dimmer
	Colo	000-255	9 different color macros.
	SavScene		Store the setting as scene.
NoSigSet	Auto		Choosing the automatic mode.
	Music		Choosing the sound-to-light mode.
	Close		No mode is chosen.
	Scene		Choosing the stored scene.
Mode Set	Basic		Choosing the required DMX mode.
	User		
	Standard		
UserMode	Pan	00-08	Manual assignment of the DMX channel for Pan.
	Pan1	00-08	Manual assignment of the DMX channel for Pan fine.
	Tilt	00-08	Manual assignment of the DMX channel for Tilt.
	Tilt1	00-08	Manual assignment of the DMX channel for Tilt fine.
	Spee	00-08	Manual assignment of the DMX channel for speed.
	R	01-13	Manual assignment of the DMX channel for dimmer red.
	G	01-13	Manual assignment of the DMX channel for dimmer green.
	B	01-13	Manual assignment of the DMX channel for dimmer blue.
	W	00-08	Manual assignment of the DMX channel for dimmer white.

	Stro	00-08	Manual assignment of the DMX channel for the strobe.
	Lumi	01-13	Manual assignment of the DMX channel for the dimmer.
	Colo	01-13	Manual assignment of the DMX channel for color macros.
	Autu	00-08	Manual assignment of the DMX channel for automatic mode.
	Save Set		Store the manual assignments.
ResetDef			Reset.
Versions			Shows the current software version.

6. DMX chart

6.1. DMX mode Standard (13 channels)

Channel	Value from	Value to	Function
1	0	255	Pan
2	0	255	Pan fine
3	0	255	Tilt
4	0	255	Tilt fine
5	0	225	Speed Pan/Tilt fast-slow
	226	235	No function
	236	255	Highest speed
6	0	255	Dimmer red
7	0	255	Dimmer green
8	0	255	Dimmer blue
9	0	255	Dimmer white
10			Strobe
	0	16	No function
	17	255	Strobe
11	0	255	Dimmer
12			Color macros
	0	75	No function
	76	95	Red
	96	115	Green
	116	135	Blue
	136	155	White
	156	175	Red / blue
	176	195	Red /Green
	196	215	Red / blue
	216	235	Blue / green
	235	255	Red / green
13	0	75	No function
	76	255	Automatic programs

6.2. DMX mode Basic (11 channels)

Channel	Value from	Value to	Function
1	0	255	Pan
2	0	255	Tilt
3	0	225	Speed Pan / Tilt fast-slow
	226	235	No function
	236	255	Highest speed
4	0	255	Dimmer red
5	0	255	Dimmer green
6	0	255	Dimmer blue
7	0	255	Dimmer white
8			Strobe
	0	16	No function
	17	255	Strobe
9	0	255	Dimmer
10			Color macros
	0	75	No function
	76	95	Red
	96	115	Green
	116	135	Blue
	136	155	White
	156	175	Red / blue
	176	195	Red / green
	196	215	Red / blue
	216	235	Blue / green
	235	255	Red / Green
11	0	75	No function
	76	255	Automatic programs

7. Technical data

Power supply	
Voltage	AC 100-240 V; 50/60 Hz
Power consumption max.	35 W
Light source	
LM type	4in1 Osram LED
Color spectrum	RGBW
Power	15 W
Number / Power	1 x 15 W
Connections	
Strom in	P-Con
Strom out	P-Con
XLR in/out	3pol
Pan	540 / 630
Tilt	180
Controlling	
Sound-to-light	Yes
Automatic	Yes
Master-Slave	Yes
DMX512	Yes
Number of canals	11 / 13 channels
Hardware	
Protection class	IP20
Suitability	Indoor
Dimensions (L/B/H)	164 x 124 x 288 mm
Weight	2,64 kg

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